

July 19, 2012

Marlene H. Dortch Secretary Federal Communications Commission 445 12th Street, SW Washington, DC 20554

RE: WT Docket 10-4

Amendment of Parts 1, 2, 22, 24, 27, 90 and 95 of the Commission's Rules to Improve Wireless Coverage Through the Use of Signal Boosters

On July 11, 2012, Frank Lee, Michael Millard, and Jeremy K. Raines, Ph.D., P.E. of Smart Booster met with Tom Derenge, Joyce Jones, Moslem Sawez, Becky Schwartz, and Erin Griffith all from the Wireless Telecommunications Bureau, and Bruce Romano of the Office of Engineering and Technology. Roger Noel of the WTB and Rashmi Doshi of the OET also attended via telephone conference.

The attached sides were presented at the meeting but were inadvertently omitted from Smart Booster's July 13, 2012 Notice of Ex Parte Communication.¹

A phone number has been redacted from Slide #5 to protect subscriber privacy.

Respectfully submitted,

Jeremy K. Raines, Ph.D., P.E.

By: Jeromy K. James, Ph.D., F. E.

Submitted via ECFS: July 19, 2012

¹ http://apps.fcc.gov/ecfs/comment/view?id=6017095955

Before the FEDERAL COMMUNICATIONS COMMISSION Washington, D.C. 20554

| In the Matter of |) | |
|--|---------|--|
| Amendment of Parts 1, 2, 22, 24, 27, 90 and 95 of the Commission's Rules to Improve Wireless Coverage Through the Use of Signal Boosters |)))) | WT Docket No. 10-4 Released Jan 6, 2010 |
| | , | |

NOTICE OF EX PARTE COMMUNICATION MILLARD/RAINES PARTNERSHIP ("SMART BOOSTER")



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Submitted via ECFS: July 13, 2012

On July 11, 2012, Frank Lee, Michael Millard, and Jeremy K. Raines, Ph.D., P.E. of Smart Booster met with Tom Derenge, Joyce Jones, Moslem Sawez, Becky Schwartz, and Erin Griffith all from the Wireless Telecommunications Bureau, and Bruce Romano of the Office of Engineering and Technology. Roger Noel of the WTB and Rashmi Doshi of the OET also attended via telephone conference. Smart Booster discussed the ongoing proceeding regarding the use of signal boosters for wireless services, with particular attention to the matters disclosed below.

- 1. The technical safe harbors, as presently envisioned in the draft Joint Proposal, do not adequately prevent or minimize the interference from cellular boosters.
- 2. The registration process, as presently envisioned in the draft Joint Proposal, is incapable of preventing or minimizing interference from cellular boosters and suffers other significant shortcomings, particularly those relating to purchaser compliance, churn, and resale of boosters in the secondary markets. Further shortcomings include the registration of boosters to fixed addresses when in reality, a majority are expected to operate in mobile environments. And finally, the registration process as presently envisioned will not include the millions of legacy boosters already deployed and is therefore useless for interference abatement efforts.
- 3. The combination of ineffective technical safe harbors and a useless registration process is an improper substitute for robust blanket licensing. Smart Booster noted its agreement with AT&T's recent ex parte communication that section 1.903(c) of the Commission rules does not provide a framework for the combination of technical safe harbors and device registration to replace blanket licensing.
- 4. There is no consensus for the Joint Proposal. Except for Verizon, all carriers have expressed an unwillingness to grant consent for boosters that operate on spectrum belonging to other carriers. Broadband operation is at the heart of the joint proposal and without it, there can be no consensus. As a practical matter, any consent-based

approach to broadband booster use is automatically circumvented in the event any

one carrier desires to withhold consent since mobile broadband boosters operate

across all carriers' licensed spectrum with impunity.

5. Smart Booster disagreed with the bureau's position concerning permissible "fleeting

use" as reported in AT&T's recent ex parte notice. The huge number of subscribers

who churn every day from one network to the next can be expected to take their

signal boosters with them to their new carrier. This hardly constitutes "fleeting use".

6. In recognition of the foregoing, Smart Booster reaffirmed that only the geographic

and spectrum controls inherent to intelligent booster technology can satisfy the

carriers' desire for control akin to that afforded by the blanket licensing of handsets.

Pursuant to Section 1.1206 of the Commission's Rules, this Notice of Ex Parte

Communication is being filed electronically via ECFS.

Respectfully submitted,

Jeremy K. Raines, Ph.D., P.E.

Michael Millard

By: Michael & Make

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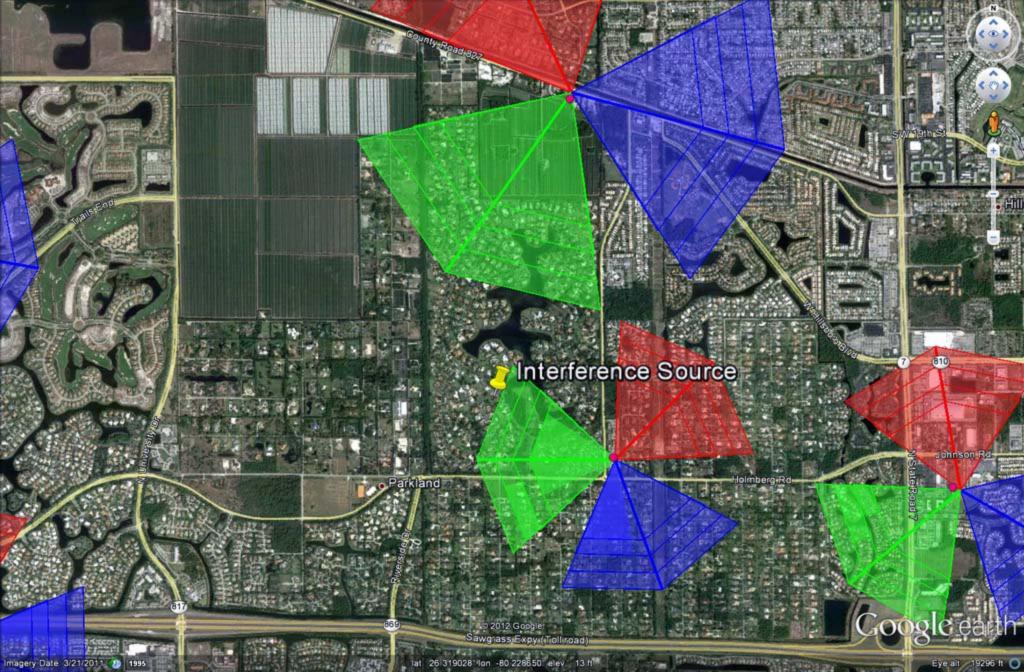
July 13, 2012 VIA: ECFS. By: Jeremy K Raines, Ph.D., F. E.

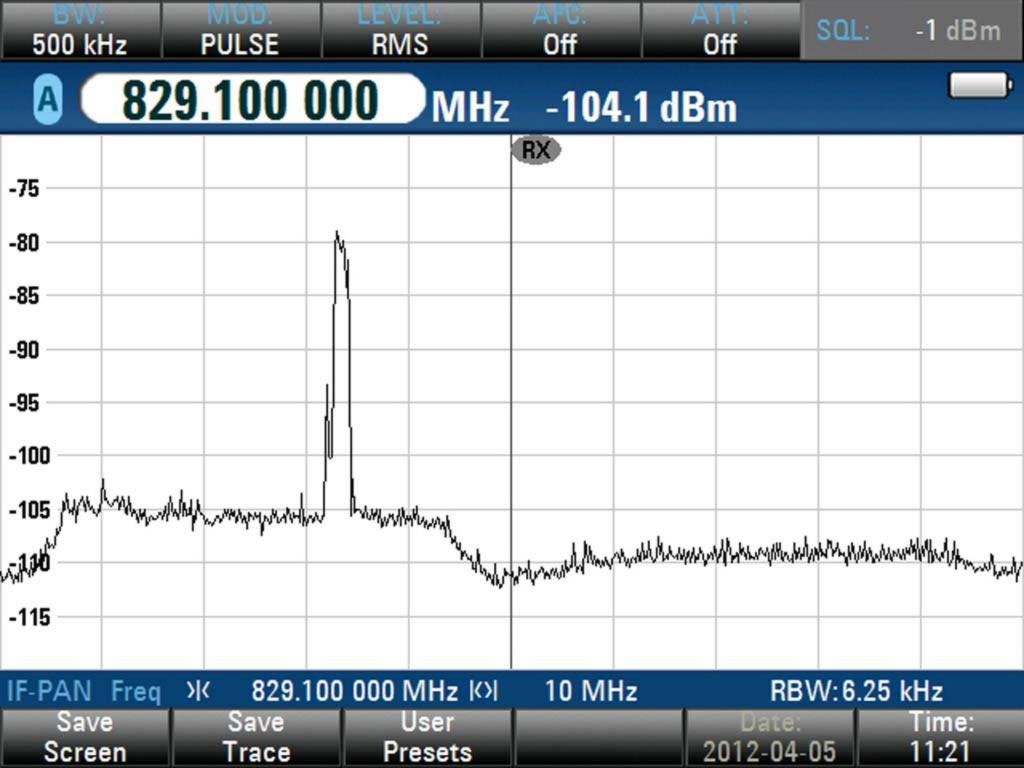
Jeremy K. Raines, Ph.D., P.E. 13420 Cleveland Drive

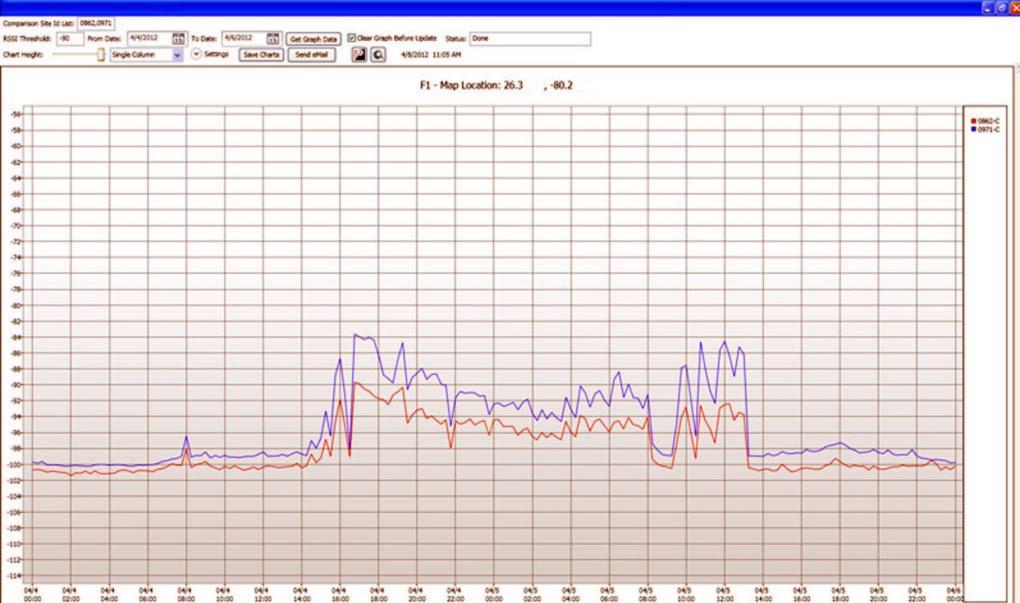
Rockville, MD 20850



Ex-Parte Presentation
Federal Communications Commission
July 11, 2012







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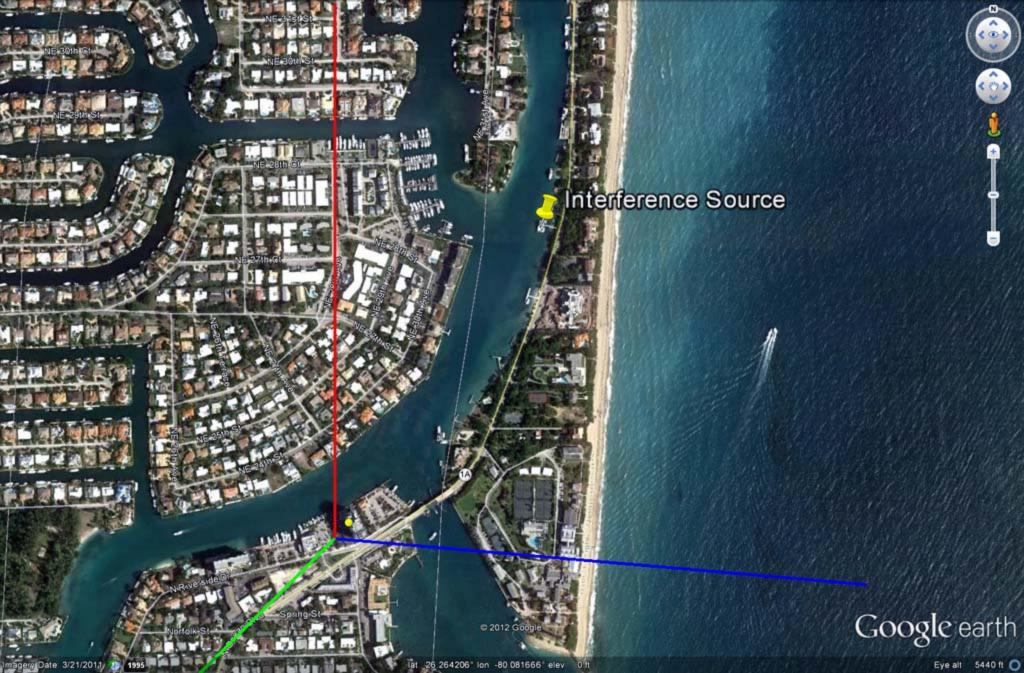
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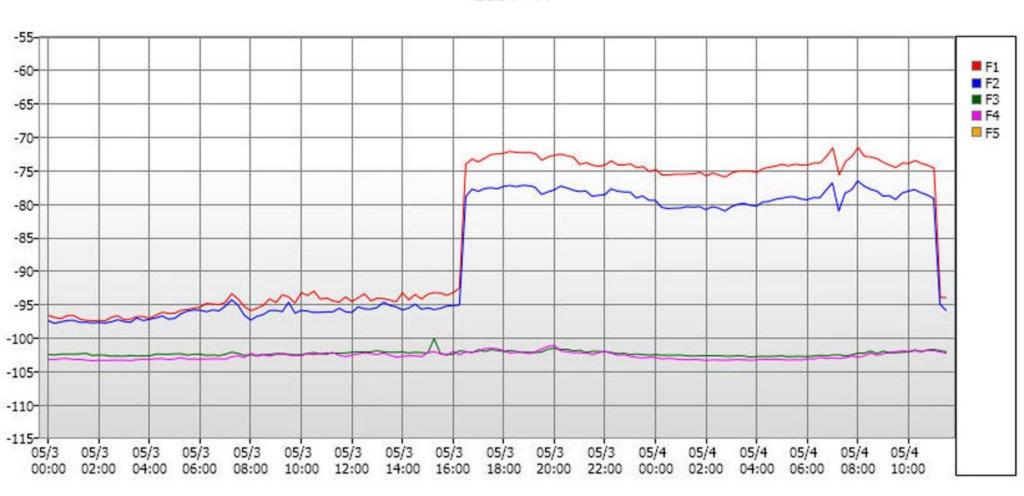
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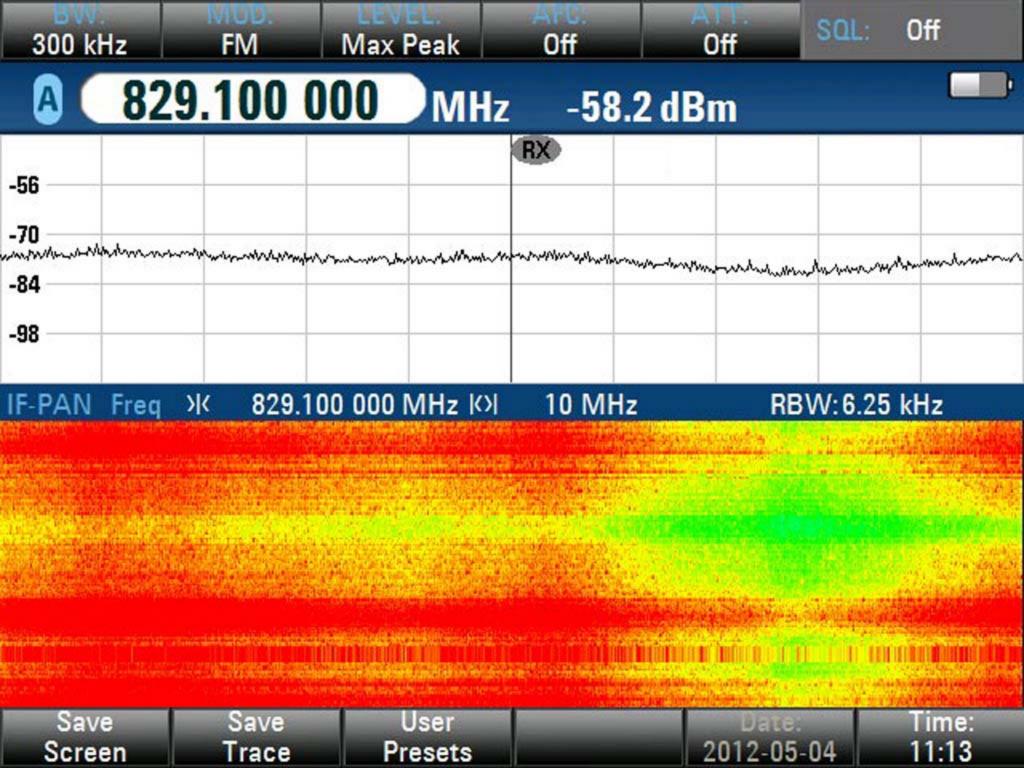


Slide #5 - Phone Number Redacted to Protect Subscriber Privacy.











The Proposed Technical Safe Harbors Did Not Prevent Harmful Interference

- Anti-Oscillation Circuitry
- Downlink Sensing
- Low Power
- Registration Card

What additional safeguards are needed to prevent interference?

Registration + Card

Technical Safe Harbors

DOES NOT PROVIDE

Meaningful License Regime

Registration Will Fail Because...

- Omits millions of boosters already sold
- Ignores churn
- Ignores resale in the secondary markets
- Unreliable compliance by consumers

Even if perfect, registered with whom? The serving carrier or all carriers?

There Is No Consensus for Broadband Signal Boosters

Vac

Nο

| • | verizon | 165 |
|---|-----------------|-----|
| • | AT&T | No |
| • | T-Mobile | No |
| • | Sprint | No |
| • | Metro PCS | No |
| • | US Cellular | No |
| • | Cincinnati Bell | No |

Blooston Licensees

The majority of respondents demand carrier specific signal boosters and are unwilling to approve broadband devices.

... But There Is an Implied Consensus for Intelligent Signal Boosters

Yes

| • | Verizon | No |
|---|-----------------|-----|
| • | AT&T | Yes |
| • | T-Mobile | Yes |
| • | Sprint | Yes |
| • | Metro PCS | Yes |
| • | US Cellular | Yes |
| • | Cincinnati Bell | Yes |

Blooston Licensees

Three Questions from the FCC

- 1. Why doesn't the Joint Proposal get the job done?
- 2. What additional safeguards are needed such the devices cause no harm?
- 3. What does Smart Booster need to see in the rules to move forward on its development?